

Product datasheet for **MC221550**

Aco2 (NM_080633) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Aco2 (NM_080633) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Aco2 |
| Synonyms: | Aco-2; Aco3; D10Wsu183e |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC221550 representing NM_080633
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCCTTACAGCCTCCTGGTCACCCGGCTGCAGAAGGCCCTGGGTGTGCGGCAGTACCATGTGGCCT
 CTGTCCTGTGCCAACGGGCAAGGTGGCCATGAGCCATTTTGGAGCCAGTGAGTACATCCGATATGACCT
 GCTAGAGAAGAACATTAACATTGTCCGTAACCGTTGAACCGCCCTTACTCTCTCAGAGAAGATTGTA
 TATGGACACCTGGATGACCCAGCCAACCAGGAGATCGAGCGGGAAAGACATACCTGCGTTTACGGCCCG
 ACCGGGTGGCCATGCAGGATGCCACAGCCAGATGGCTATGCTACAGTTCATTAGCAGTGGGCTGCCTAA
 GGTGGCTGTACCATCAACATCCACTGTGATCATCTGATTGAGGCCAGGTTGGGGTGAGAAAGACCTG
 CGCAGGGCAAGGACATAAACCAGGAAGTATAAATTCCTGGCAACTGCAGGTGCCAAGTATGGTGTGG
 GCTTCTGGAGGCCTGGATCTGGGATCATCACCAGATCATTCTAGAAAATATGCATACCCTGGAGTTCT
 TCTGATCGGCACTGATTCGCACACCCCAATGGTGGTGGCTGGGAGGCATCTGCATTGGAGTAGGGGT
 GCTGATGCTGTGGATGTCATGGCTGGGATCCCCTGGGAGCTGAAGTGTCCAAGGTGATCCGGTGTGAAGC
 TGACAGGCTCCCTCTCTGGTGGACCTCACCAAGATGTGATCCTGAAAGTGGCAGGTATCCTCACGGT
 GAAAGGTGGCACAGGTGCTATTGTGGAATACCACGGACCCGGTGTGCGATTCCATCTCCTGCACTGGCATG
 GCAACTATCTGCAACATGGGTGCAGAAATGGGGCCACTACGTCAAGTGTCCCATACAACCACAGGATGA
 AAAAGTACCTGAGCAAGACAGGCCGAACAGACATTGCCAACCTAGCAGAAGAATCAAGGATCACTTAGT
 GCCTGATCCTGGCTGCCAGTATGACCAAGTATTGAAATTAACCTCAATGAGCTAAAGCCACATATCAAT
 GGGCCCTTACCCTGACTTGGCTCACCCAGTGGCAGATGTGGGACTGTGGCAGAGAAGGAAGGCTGGC
 CTCTGGACATCAGAGTAGGTTTATTGGCAGCTGCACCAATTCAAGCTATGAGGACATGGGACGATCAGC
 AGCTGTGGCTAAGCAGGCATTGGCCACGACTCAAGTGAAGTCCCAGTTCACCATCACCCAGGCTCT
 GAGCAGATCCGTGCCACTATTGAGCGGGATGGCTATGCACAGATCTTAAGGGATGTGGGTGGAATCGTTT
 TGGCAATGCCTGTGGCCCTTGATCGGCCAGTGGGACAGAAAAGACATCAAGAAGGGGAGAAGAATAC
 AATCGTCACTCTTACAACAGGAACTTACAGGCCGTAATGATGCAAACCTGAGACCCATGCCTTTGTC
 ACATCCCAGAGATTGTCACAGCTCTGGCCATTGCAGGAACCTGAAGTTCATCCAGAACTGACTTCT
 TAACAGGCAAGGACGGCAAGAAGTCAAGTTGGAGGCTCCAGATGCAGACGAGCTTCCCCGATCGGACTT
 TGATCCAGGGCAGGACACATACCAGCACCCCTAAGGACAGCAGTGGGACGGCAAGACCTCGAGGACCTGCAA
 ACCAGCCAGCGCTGCAGCTCCTGGAGCCTTTCGACAAGTGGGACGGCAAGACCTCGAGGACCTGCAA
 TCCTCATCAAGGTCAAAGGGAAGTGCACCACAGACCACATTTCTGCTGCCGGCCCTGGTCAAGTCCG
 TGGCATCTGGATAACATCTCTAACAACCTGCTCATCGGTGCCATCAACATCGAAAATGGCAAAGCCAAC
 TCTGTACGCAATGCTGTACCCAGGAGTTTGGCCCTGTACCTGCACTGCTCGTACTACAAGAAACATG
 GCATCAGGTGGTGGTATTGGAGATGAGAATATGGTGAAGGCTCAAGCCGGGAGCATGCAGCACTGGA
 GCCTCGCCACCTTGGGGCCGGGCCATCATACCAAGAGCTTCGCCAGGATCCACGAAACCAATCTAAAG
 AAGCAGGCTTGTGCCCTCACCTTCGCTGACCCCTCCGACTATAACAAGATTCATCCAGTGGACAAGC
 TGACCATCAAGGCTGAAGGACTTTGCCCTGGAAAGCCTCTGAAGTGGTTCATCAAGCACCCCAATGG
 GACCCAGGAGACCATCCTCCTGAACCACCTTCAACGAGACCCAGATCGAGTGGTCCGTGCAGGCAGT
 CCCCTCAACAGGATGAAGGAGCTGCAGCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_080633
Insert Size: 2343 bp

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| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | NM_080633.2 , NP_542364.1 |
| RefSeq Size: | 2785 bp |
| RefSeq ORF: | 2343 bp |
| Locus ID: | 11429 |
| UniProt ID: | Q99K10 |
| Cytogenetics: | 15 E1 |
| Gene Summary: | Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.[UniProtKB/Swiss-Prot Function] |